

WDN/SAS/DJZ:kam 04/17/02 4239-111342

PATENT

Attorney Reference Number 4239-61854

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Pastan *et al.*

Application No. 10/031,158

Filed: January 11, 2002

For: T-CELL RECEPTOR Y ALTERNATE  
READING FRAME PROTEIN, (TARP)  
AND USES THEREOF

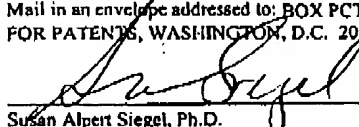
Examiner: Not yet assigned

Date: April 17, 2002

Art Unit: Not yet assigned

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service on April 17, 2002, as First Class Mail in an envelope addressed to: BOX PCT COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.

  
Susan Alpert Siegel, Ph.D.  
Agent for Applicant

TRANSMITTAL LETTER

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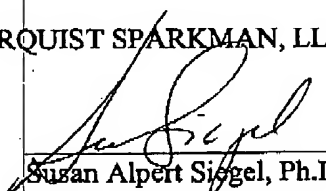
Enclosed is a Third Preliminary Amendment for the above application.

- ☒ No additional fee is required.
- ☒ Please charge any fees that may be required in connection with filing this amendment to Deposit Account No. 02-4550. A copy of this sheet is enclosed.
- ☒ A Marked-up Version of Amended Specification Pursuant to 37 C.F.R. §§ 1.121(b)-(c) is attached.
- ☒ Please return the enclosed postcard to confirm that the items listed above have been received.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By

  
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## THIRD PRELIMINARY AMENDMENT

Prior to examination of the above-referenced application, please amend the application as follows:

*In the Specification:*

Please replace the paragraph at page 12, lines 19 through 34, with the following:

--TARP contains five leucines in heptad repeats, suggesting that TARP contains a leucine zipper dimerization motif (Figure 14A). For this to be true, TARP must contain an amphipathic helix. One indication that TARP may contain an amphipathic helix is that serine and proline residues, residues believed to serve as a helix initiator, are found immediately before the first leucine repeat. Second, many charged amino acids are found within the heptad repeats thereby giving the helix an amphipathic nature and potentially serving as salt bridges with other helices. Even though the presence of leucines in heptad repeats is a good indication of a leucine zipper motif, there are proteins identified containing five leucines in heptad repeats that are not considered leucine zipper proteins. For example, the crystal structures for karyopherin (Chook, Y. M. *et al.*, *Nature* 399:230-237 (1999)), *B. stearothermophilus* pyrimidine nucleoside phosphorylase (Pugmire, M. J. *et al.*, *Structure* 6:1467-1479 (1998)) and *T. thermophilus*

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